

FIG. 1

FIG. 2 is a schematic diagram of a projection system 200. The system includes a lamp 210, filters 220, dichroic mirrors 215, condensers 230, arrays 240, projection lenses 250, and a screen 260. Light from the lamp 210 passes through the filters 220 and is reflected by the dichroic mirrors 215. The light then passes through the condensers 230 and the arrays 240. The light is then focused by the projection lenses 250 onto the screen 260.

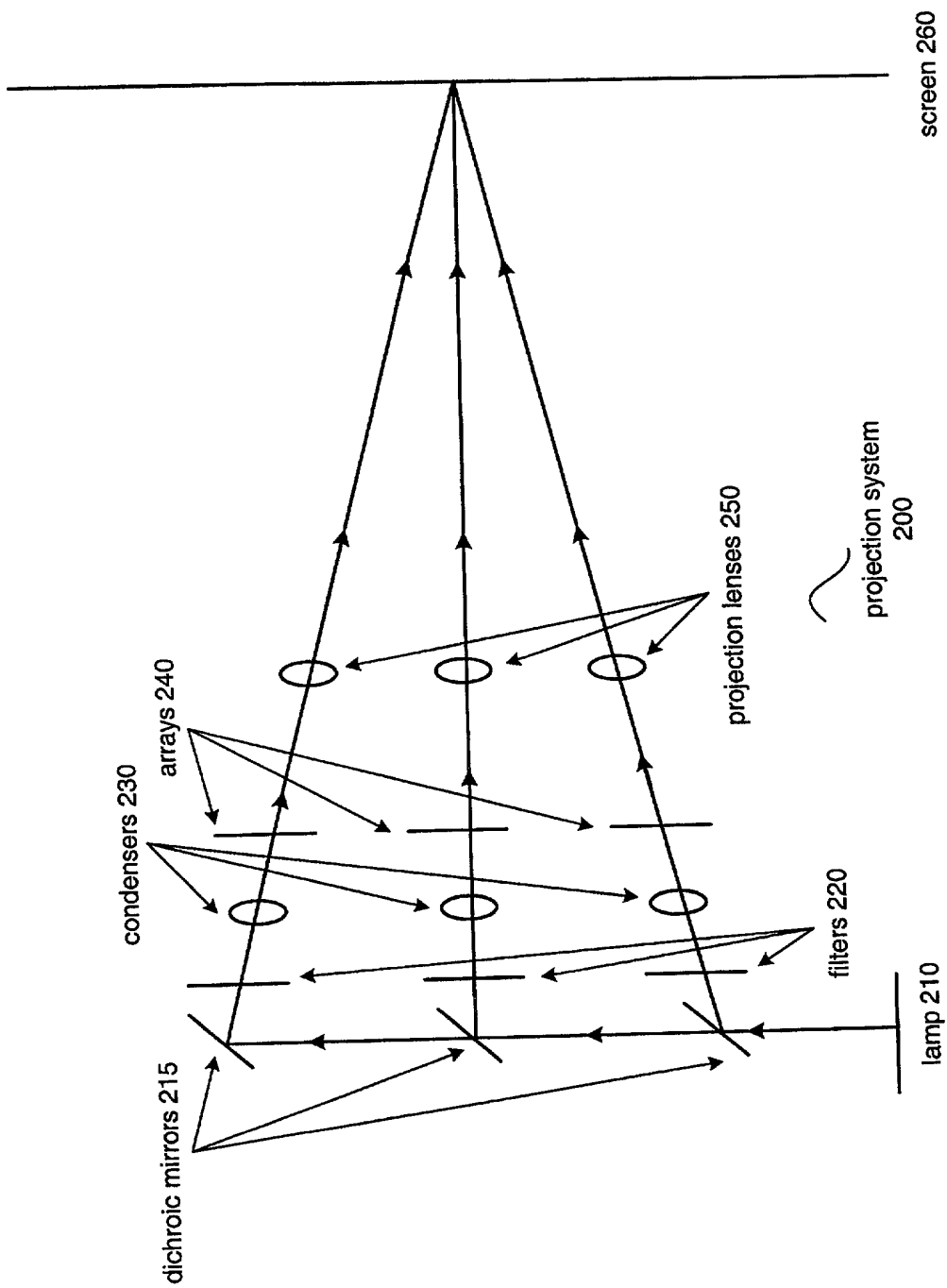


FIG. 2

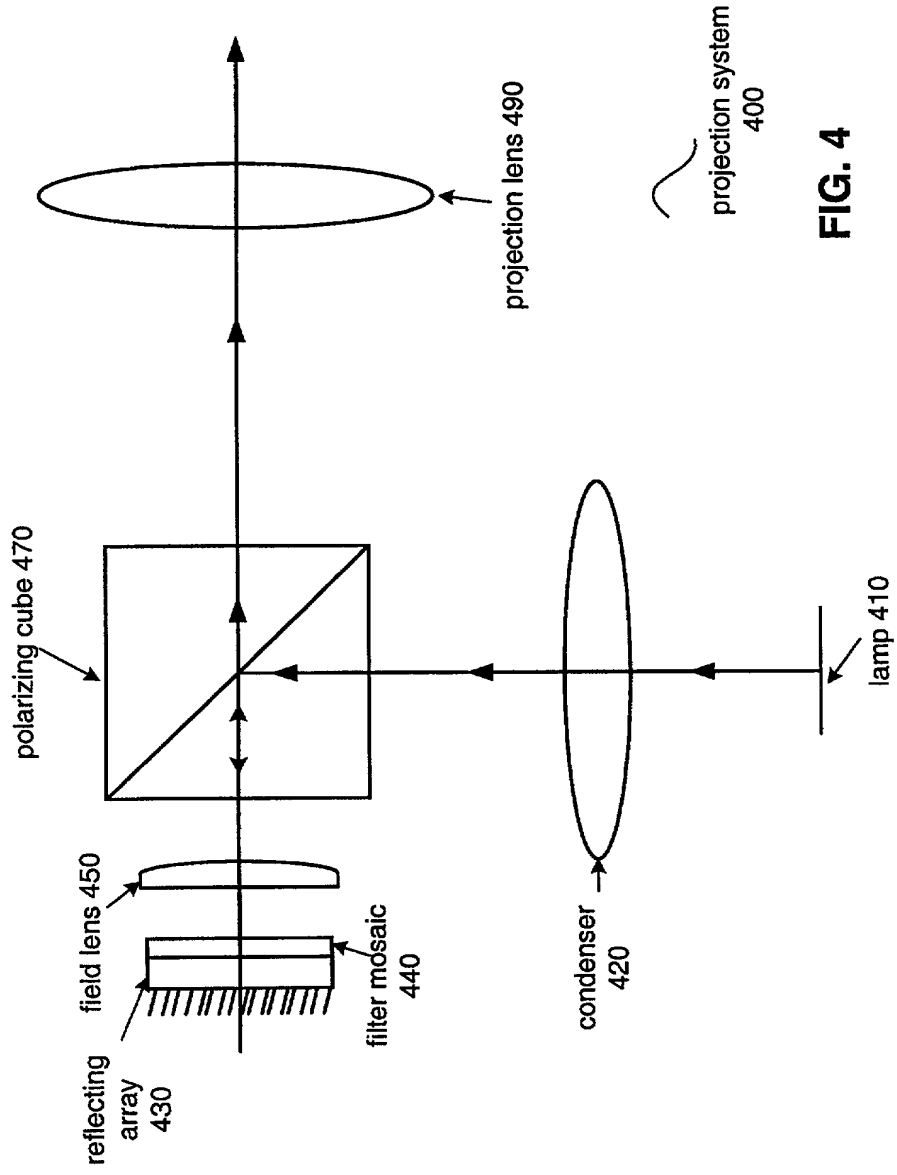


FIG. 4

FIG. 5 is a schematic diagram of a projection system 500. The system includes a light valve 510, a lenticular array 520, a field lens 530, a projection lens 540, and a screen 590. The light valve 510 is divided into 16 subpixels labeled a1 through a16. The lenticular array 520 is positioned above the light valve. The field lens 530 is positioned above the lenticular array. The projection lens 540 is positioned above the field lens. The screen 590 is positioned at the output of the projection lens. The system is defined by an optic axis and distances D1, D2, and F. The screen 590 displays the projected image with labels A1-3, A4-6, A10-12, and A13-15. The projection system 500 includes a color filter 550 and surfaces S2, S3, and S4.

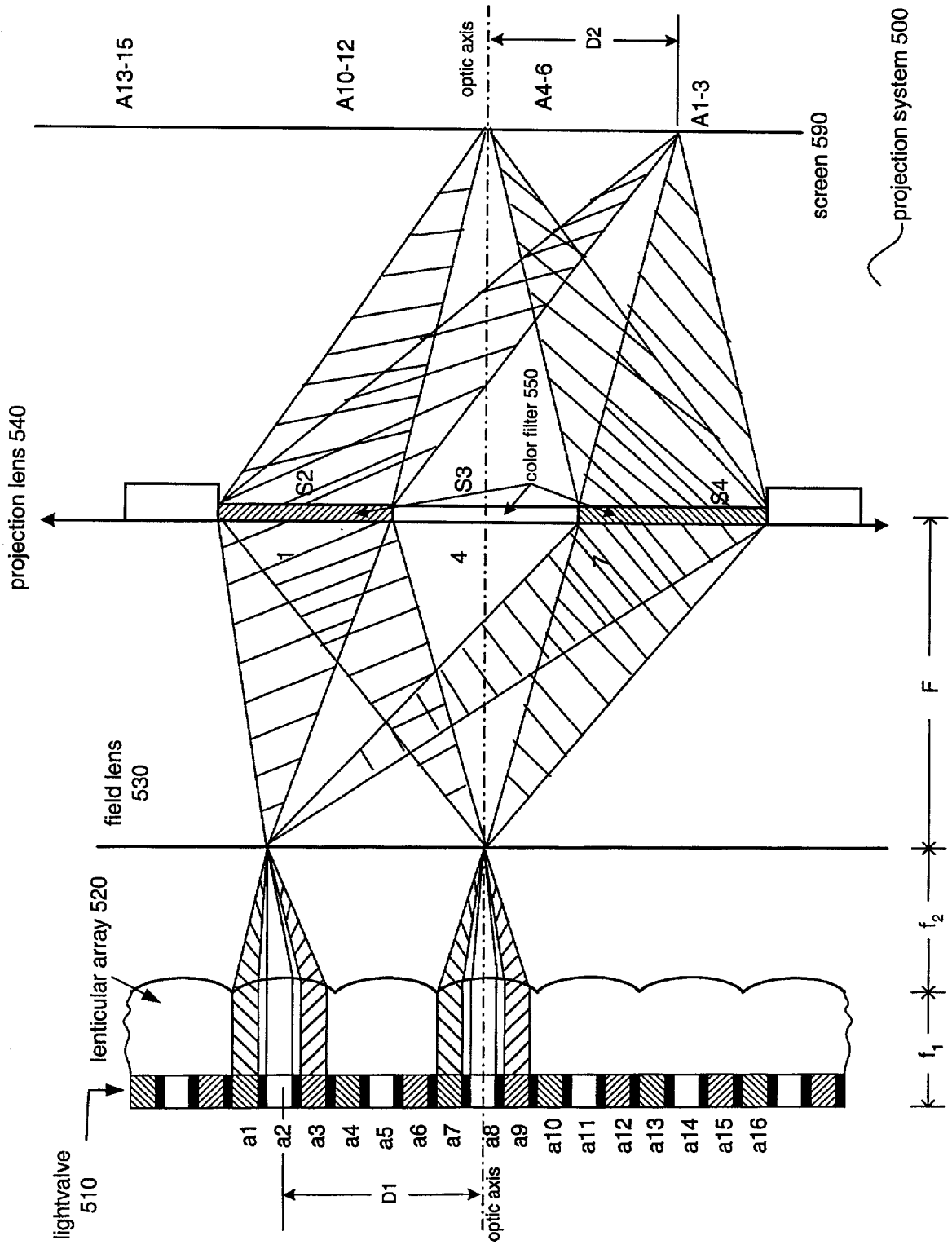
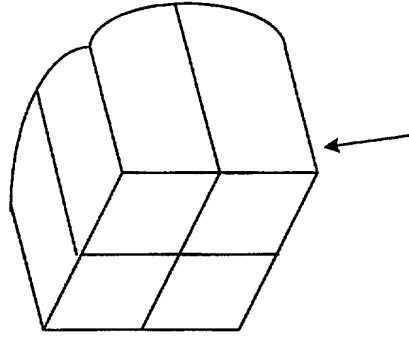
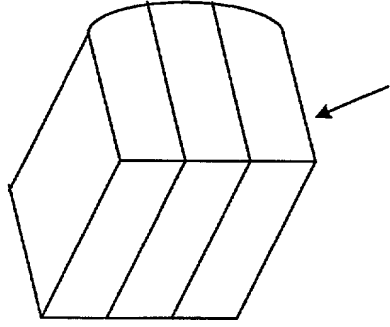


FIG. 5



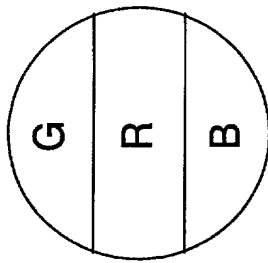
Spherical Lenticules 610

FIG. 6(a)



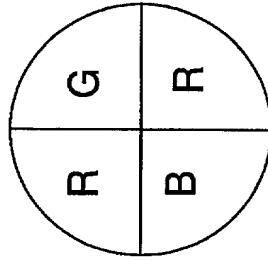
Cylindrical Lenticules 620

FIG. 6(b)



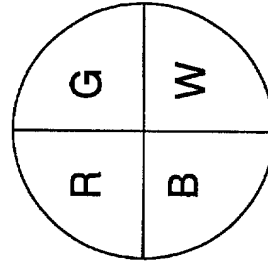
RGB filter 710

FIG. 7(a)



RGB filter 720

FIG. 7(b)



RGBW filter 730

FIG. 7(c)

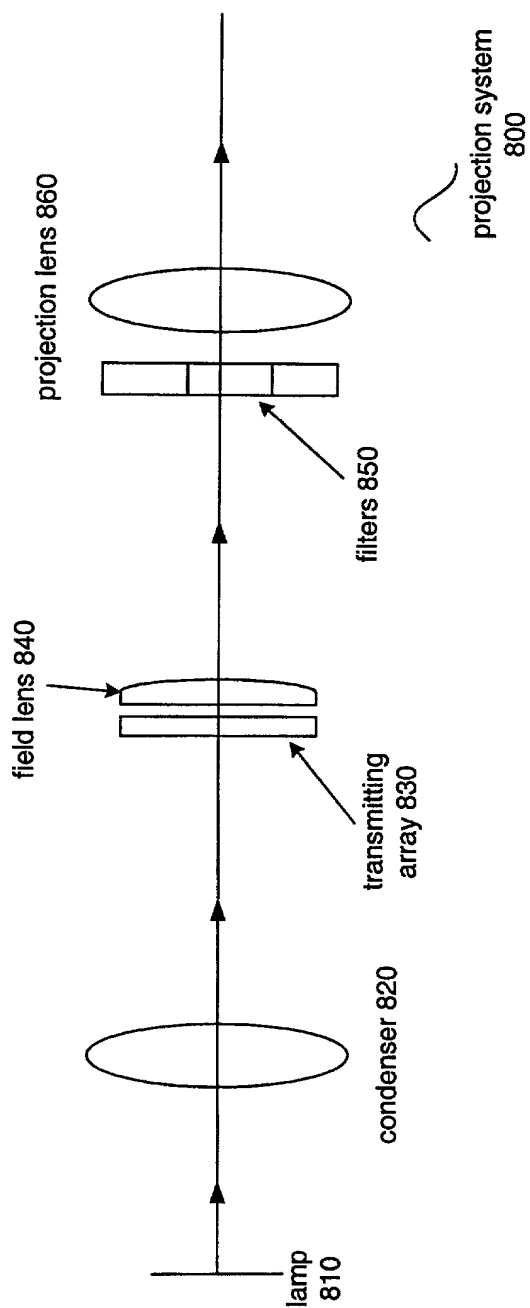


FIG. 8

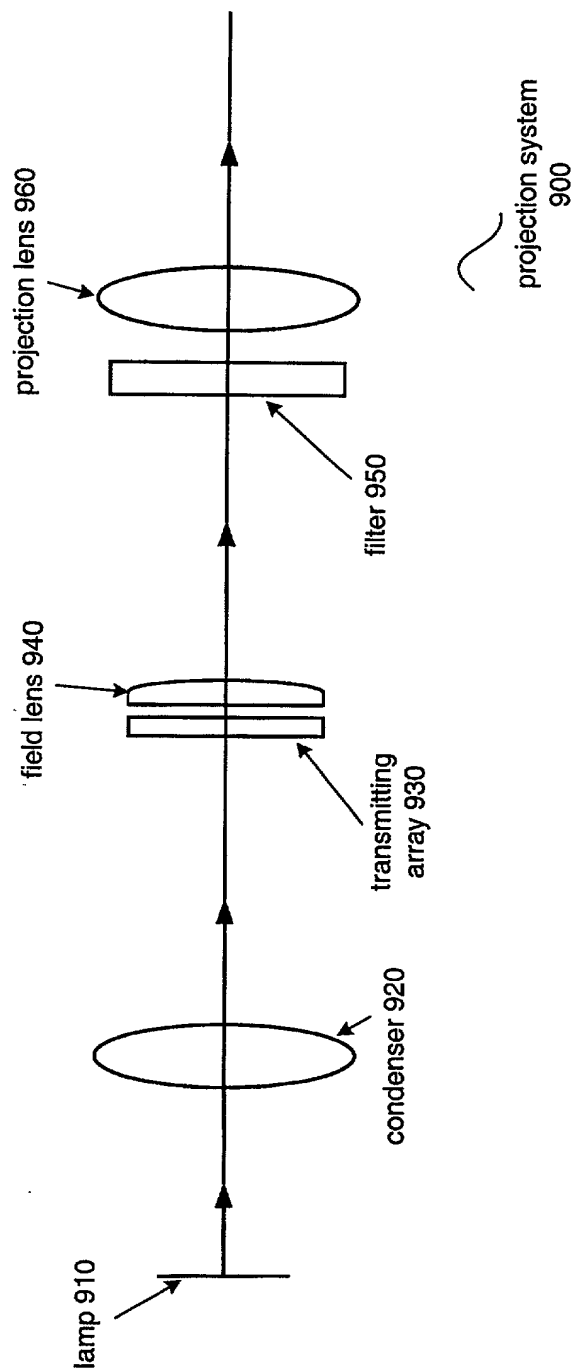


FIG. 9

FIG. 10 is a schematic diagram of a projection system 1000. The system includes a lamp 1010, a condenser 1020, a field lens 1050, a polarizing cube 1060, a lenticular reflecting chrominance array 1030, a transmitting luminance array 1040, filters 1070, and a projection lens 1090. Light from the lamp 1010 passes through the condenser 1020 and the field lens 1050. It then enters the polarizing cube 1060, which directs the light through the lenticular reflecting chrominance array 1030 and the transmitting luminance array 1040. The light then passes through filters 1070 and the projection lens 1090 to form a projected image.

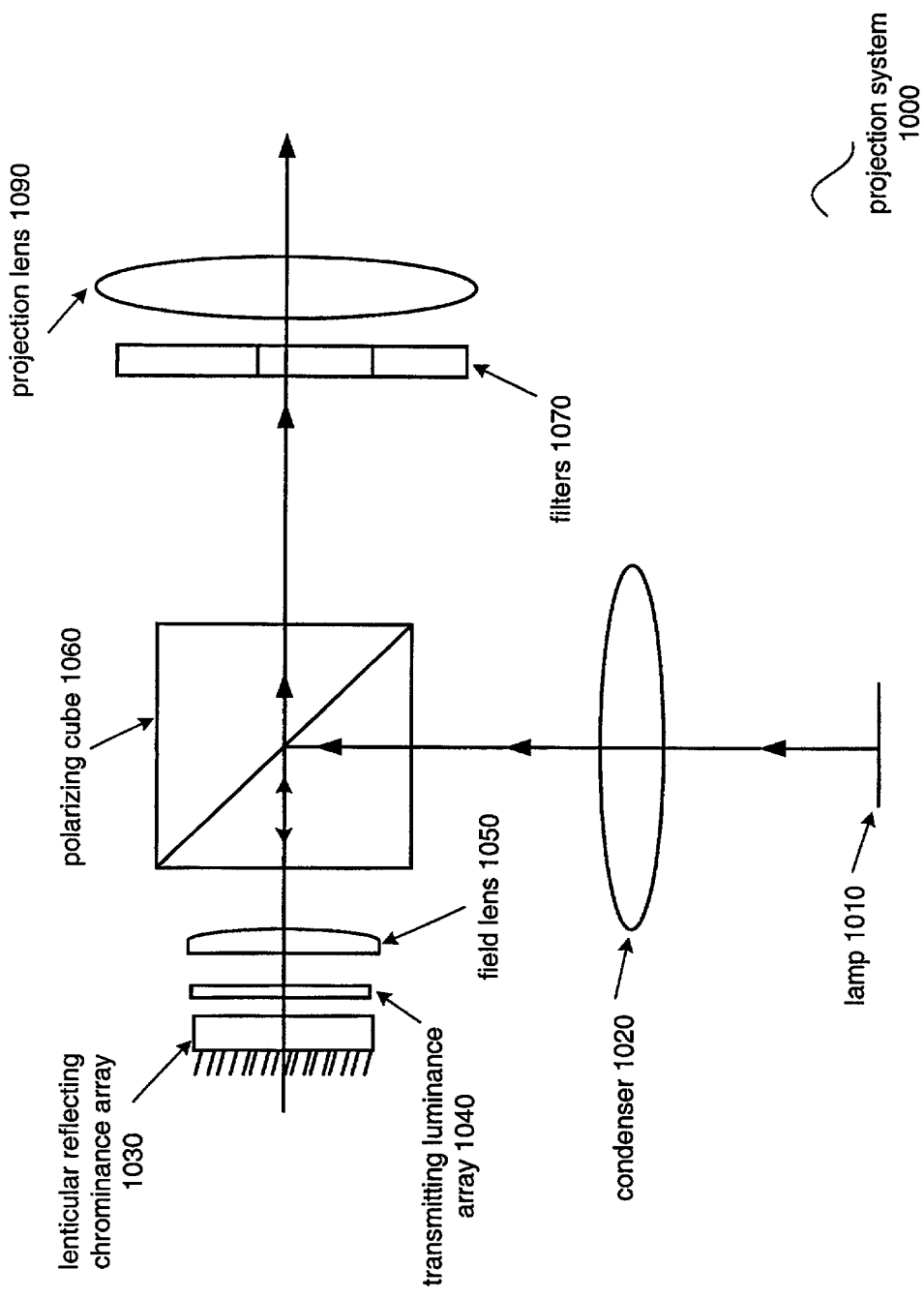


FIG. 10

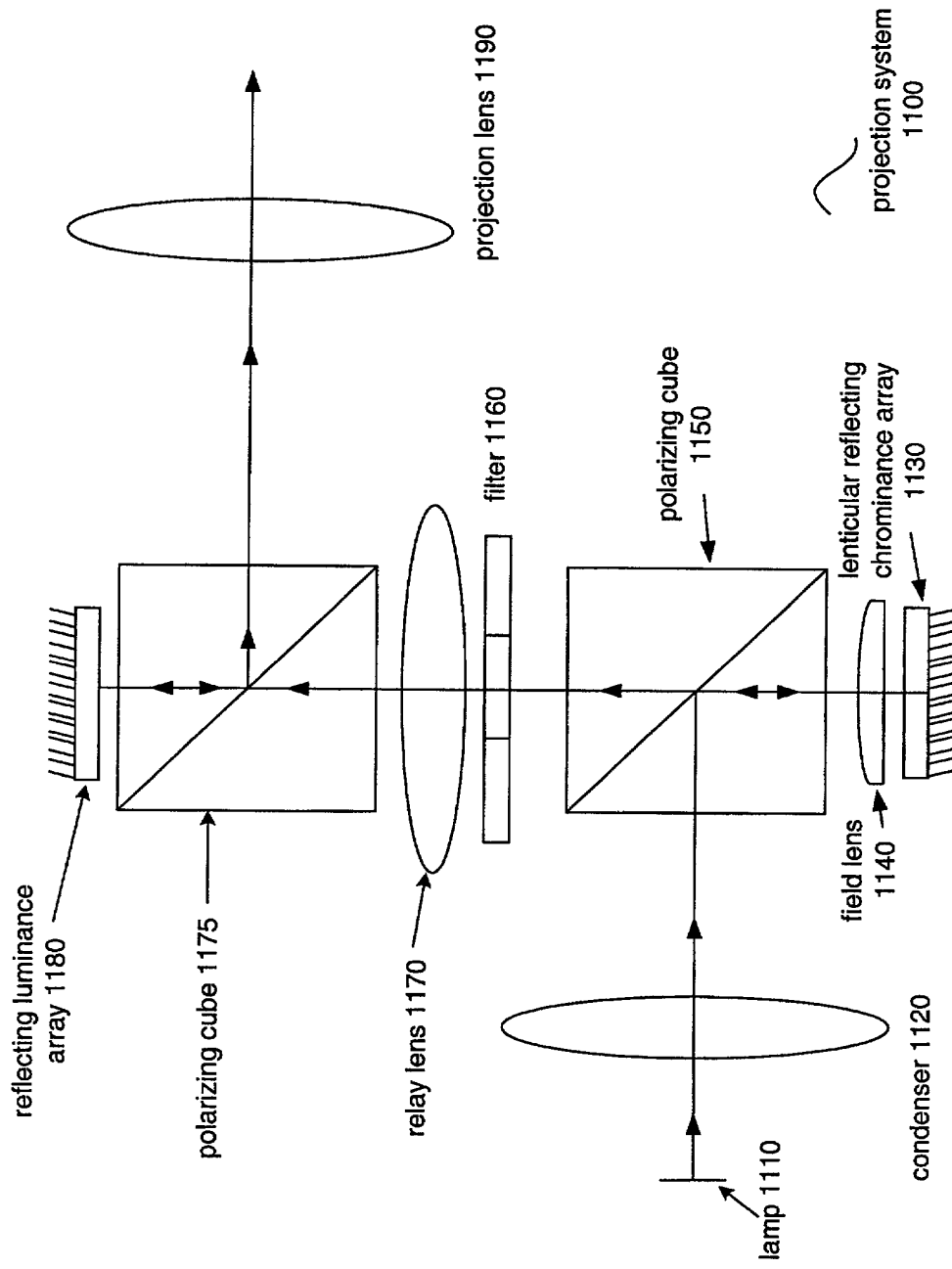


FIG. 11

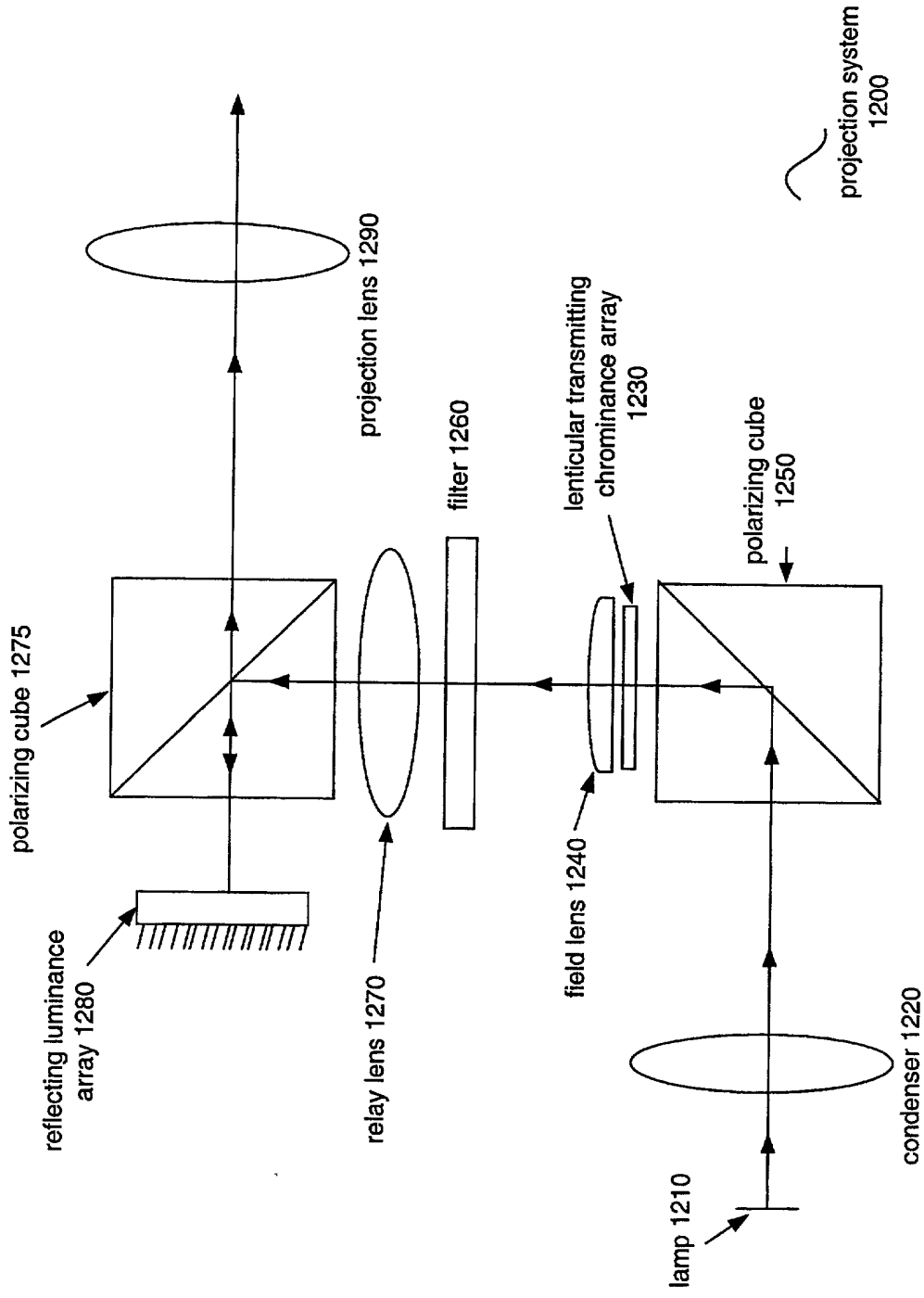


FIG. 12